

# Intel Core i3-14100F processor 12 MB Smart Cache Box



**Brand :** Intel

**Product family:** Core

**Product code:** BX8071514100F

**Product name :** i3-14100F

Boxed Intel® Core™ i3 processor 14100F (12M Cache, up to 4.70 GHz) FC-LGA16A  
 Intel Core i3-14100F. Processor family: Intel® Core™ i3, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Processor package size: 45 x 37.5 mm. L2 cache: 5120 KB, Maximum internal memory: 192 GB

Processor		Features	
Processor manufacturer *	Intel	Embedded options available	✗
Processor generation	Intel Core i3-14xxx	Direct Media Interface (DMI) Revision	4.0
Processor model *	i3-14100F	Export Control Classification Number (ECCN)	5A992C
Processor family *	Intel® Core™ i3	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor cores *	4	<b>Processor special features</b>	
Processor socket *	LGA 1700	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Performance cores	4	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	4.7 GHz	Intel® Speed Shift Technology	✓
Performance-core boost frequency	4.7 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Performance-core base frequency	3.5 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor cache	12 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel® Secure Key	✓
Box *	✓	Intel® OS Guard	✓
Cooler included *	✓	Intel 64	✓
Processor base power	58 W	Intel Virtualization Technology (VT-x)	✓
Maximum turbo power	110 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	H0	Intel® Boot Guard	✓
Maximum number of DMI lanes	8	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Volume Management Device (VMD)	✓
Processor codename	Raptor Lake	Mode-based Execute Control (MBE)	✓
Processor ARK ID	236786	Intel® Standard Manageability (ISM)	✓
<b>Memory</b>		<b>Operational conditions</b>	
Maximum internal memory supported by processor	192 GB	Tjunction	100 °C
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	<b>Logistics data</b>	
Memory channels *	Dual-channel	Harmonized System (HS) code	8542310001
Memory bandwidth (max)	76.8 GB/s	<b>Technical details</b>	
<b>Graphics</b>		Launch date	Q1'24
On-board graphics card *	✗	Status	Launched
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Desktop		
Use conditions	PC/Client/Tablet		

Features		Weight & dimensions	
Maximum number of PCI Express lanes	20	Processor package size	45 x 37.5 mm
PCI Express slots version	4.0, 5.0	<b>Other features</b>	
PCI Express configurations	1x16+1x4, 2x8+1x4	L2 cache	5120 KB
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2	Maximum internal memory	192 GB
Scalability	1S		
CPU configuration (max)	1		



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